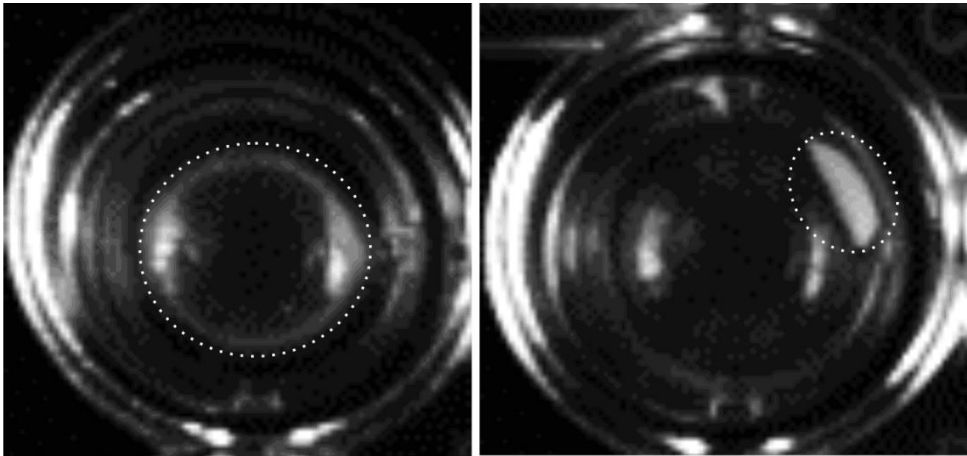
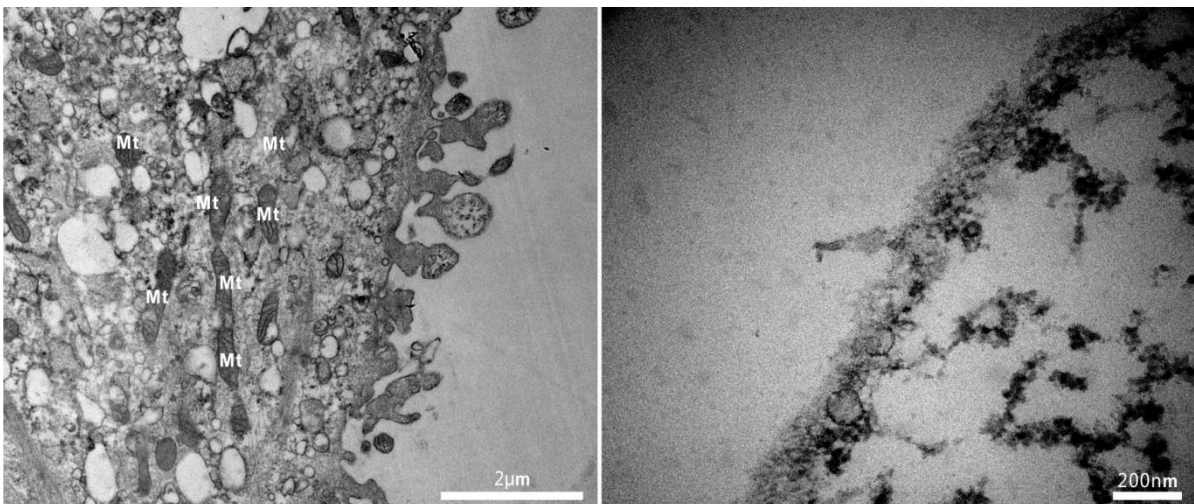


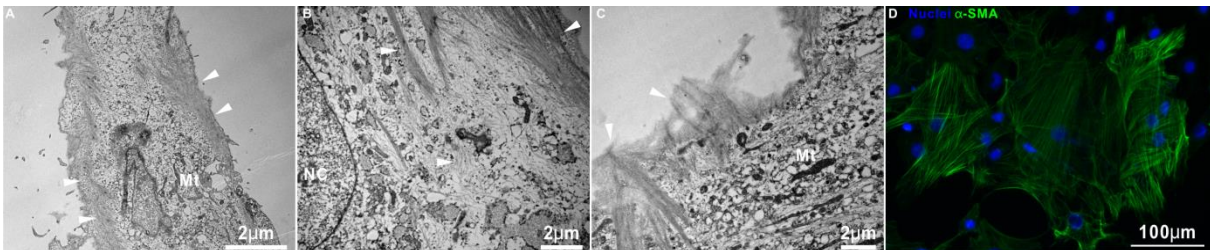
Titles and legends to Supplementary figures



Supplementary figure 1. Contractility of MSCs in mono-culture and co-culture
Left: contraction of co-cultured cells; right: contraction of mono-cultured MSCs



Supplementary figure 2. Morphological differences of MSCs and mFBs under TEM
Left: membrane morphology of MSCs. Mt: mitochondria within the cytoplasm of cells;
Right: membrane morphology of mFBs and sparse cytoplasm



Supplementary figure 3. Actin fibers of mFBs in mono-culture

(A-C) TEM images of mono-cultured mFBs. Arrowheads highlighted the fiber structures. Mt: mitochondria; NC: nucleus (D) Immunofluorescence staining of α -SMA in mono-cultured mFBs, indicating the resemblance between the fiber structures observed by TEM and by staining.